# Position Details

## Research Projects- CSOF3

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| The following information is for applicants |
| Advertised Job Title | Fishery genomics laboratory technician |
| Job Reference | 96266 |
| Tenure | IndefiniteFull-time |
| Salary Range | AU$70K - AU$90K per annum (pro-rata for part-time)plus up to 15.4% superannuation |
| Location(s) | Hobart, TAS |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian/New Zealand Citizens and Australian Permanent Residents
 |
| Position reports to the | Research Team Leader – Predator Populations |
| Client Focus – Internal | 20% |
| Client Focus – External | 80% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Dr. Peter Grewe via email at peter.grewe@csiro.au or phone +61 (03) 6232 5222 |
| How to apply | Apply online at <https://jobs.csiro.au/> Internal applicants please apply via **Jobs Central**If you experience difficulties when applying, please email careers.online@csiro.au or call 1300 984 220. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### Role Overview

The role of Research Projects staff in CSIRO is to collaborate in scientific and technological activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work.

As part of CSIRO’s Environmental Business Unit, this role will contribute to studies involving molecular genetic analysis of both domestic and international marine and aquatic fish species populations of research interest. The role sits within the Predator Populations Team of the Sustainable Marine Futures (SMF) Program, which consists of scientists, engineers, and technicians who conduct research to estimate abundance, migration, connectivity and population genetic aspects of marine species.

The work will specifically focus on the development and optimization of high-throughput genetic workflows and will involve critical responsibilities, including optimising assays using Polymerase Chain reaction (PCR), assessment of DNA quality via gel electrophoresis, and spectromphotometric instruments (nanop-drop and Qubit), low throughput DNA extraction using both phenol-chlorofom phase and Qiagen spin column appproaches, high-throughput DNA extractions using robotic methods, Quality Assurance/Quality Control (QA/QC), and work with senior geneticists to complete population genetic analyses.

Existing skills in maintenance, programming and running of robotic liquid handling systems (e.g., both Eppendorf and Hamilton robotic liquid handlers) and protocols are essential components of this position.

### Duties and Key Result Areas

* Under limited supervision, extract and purify DNA from animal tissues using manual and robotic methods.
* Perform PCR amplification of genomic DNA.
* Undertake DNA sequencing and analysis of data using computer packages (e.g. Geneious and NCBI BLAST).
* Analyse DNA microsatellite data using GeneMapper 4.0 software.
* Analyse genomic DNA quality using gel electrophoresis and spectrophotometer instrumentation (e.g. NanoDrop, QUBIT).
* Maintain a thorough and complete record of all laboratory work.
* Maintain and manage laboratory equipment and consumables relevant to the projects.
* Contribute to scientific publications.
* Work with discretion to decide on the timing of operations within the work team’s plan and plan to meet experimental and/or project demands.
* Work collaboratively as part of a multi-disciplinary, regionally dispersed research team to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Values, Code of Conduct, Health, Safety and Environment procedures and policy and diversity initiatives.
* Other duties as directed.

## **Selection Criteria**

#### Essential

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. Relevant honours degree or equivalent work experience in a molecular genetic laboratory.
2. Existing skills in maintenance, programming and running of robotic liquid handling systems and protocols.
3. Demonstrated experience in DNA extraction using manual organic protocol (e.g., phenol chloroform) and Qiagen DNAeasy spin columns, proficiency and experience with robotic protocols using both Qiagen Qiamp-96 and Machery-Nagel-Nucleomag kits using robotic liquid handling stations (e.g. Eppendorf EP motion and Hamilton Star).
4. Demonstrated ability to work effectively across multiple projects with competing needs.
5. Laboratory management experience through electronic lab book such as LabArchives.
6. Excellent communication skills

## **Desirable**

1. The ability & willingness undertake remote/at sea fieldwork to collect tissue samples.

## **Required Competencies**

* **Teamwork and Collaboration:** Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.
* **Influence and Communication:** Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.
* **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
* **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

Special Requirements

Appointment to this role is subject to provision of a pre-employment background check and may be subject to other security/medical/character clearance requirements.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and <https://my.csiro.au/OrgInfo/CSIRO-central/CSIRO-Environment> for more information.

CSIRO is a values-based organisation.  In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* People First
* Further Together
* Making it Real
* Trusted